D/State/INR's Comments on MSS

Dictated by Bill Deary, 9 Aug. 1983

9 August 1983

MEMORANDUM FOR: DDCI

FROM: D/State/INR

SUBJECT: MSS Report

I have reviewed the MSS Draft of August 4 and believe that Option 3 would be preferable from an intelligence point of view. It would provide additional time to produce a serious study of the issue and is, I believe, the option most appropriate for Presidential decision. Option 2, however, would be acceptable since the costs would be substantially less than the MSS and the development initiatives contemplated would seem desirable anyway for national security and civil applications.

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Will LDX hard-copy over.

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Attachment 3

MSS Options

OPTION 1: COMMIT NOW TO A PERMANENTLY MANNED CIVIL SPACE STATION.

System Description:

- Manned base to house 6-8 (Living module, Utility module, Docking hub, two attached operations modules)
- Two unmanned platforms: one in polar orbit; one in low inclination orbit.
- Teleoperator Maneuvering System based in space station.

Cost:

- $8.0 billion (FY 1984 dollars) for DDT&E through IOC.
- FY 1985 cost: $225 million.
- Not included: Transportation to/from station, cost of applications instruments, Shuttle TMS, O&M costs, Space Station definition costs.

IOC: 1991

Possible Future Elements:

- Enlarged manned base (12-18 persons)
- Increased power
- Space-based orbital transfer vehicle (OTV)
- Manned base in polar orbit

OPTION 2: COMMIT NOW TO EVOLUTIONARY DEVELOPMENT OF EXPANDED STS CAPABILITIES AND UNMANNED PLATFORMS.

System Description:

- Power extension package for Shuttle (20 days with crew of 4)
- Two unmanned platforms as in Option 1.

Cost:

- $1.3 billion (FY 1984 dollars) for DDT&E.
- FY 1985 Cost: $190 million.

IOC: 1990.

Possible Future Elements: Space based OTV.

OPTION 3: DEFER COMMITMENT TO EITHER OPTION 1 OR OPTION 2 PENDING ADDITIONAL DEFINITION OF REQUIREMENTS, COSTS, AND RISKS.

Attachment 4

Compromise Option

Option: Commit to a permanently manned Space Station as a long-term goal but defer commitment to specific major hardware options pending additional definition of requirements, costs and risks.

Description: Under this option, NASA would be tasked to define a program containing appropriate study, technology development, and space research that would support an architectural decision and major hardware procurement in the FY 1988 time frame and lead to a Space Station IOC in the mid-1990s. The objective of the efforts prior to 1988 would be to define more completely requirements, costs and risks of a Space Station. Special emphasis would be placed on understanding potential national security uses, recognizing that unique national security requirements may not be found.

TAB LIST

1. Memorandum for Multiple Addressees dated 4 August 1983; Subject: Third SIG(Space) Meeting, August 10, 1983 (ER 83-1642/4)

25X1 2. Space Station Report (DRAFT) dated 4 August 1983

25X1 3. Manned Space Station Working Group Report

4. NSSD 5-83 dated 11 April 1983

5. Memorandum for Mr. John Hodge, Chairman, SIG(Space) MSS Working Group
25X1 dated 19 May 1983; Subject: MSS Requirements Review

25X1 6. Agency Comments on MSS Report (CIA: TS 832732; State:
25X1 NRO:

7. NSSD 13-83 dated 15 December 1982

8. Memorandum for Members, SIG(Space) dated 22 March 1983; Subject: SIG(Space) Meeting

25X1 9. Note for DCI from D/PPS w/MFR from dated 5 August 1983; Subject: NASA MSS Briefing to DIRNSA on 4 August 1983

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